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1c843 U.S. PTO  
01/22/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application  
 Inventor(s): Grigorov, Ph.D., Sc.D., et al.  
 SC/Serial No.: Unknown  
 Confirm. No.: Unknown  
 Filed: Herewith  
 Title: QUANTUM DEVICES BASED ON  
 CRYSTALLIZED ELECTRON PAIRS AND  
 METHODS FOR THEIR MANUFACTURE  
 AND USE

PATENT APPLICATION

Art Unit: Unknown  
 Examiner: Unknown

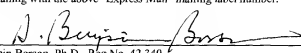
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I hereby certify that this correspondence is being deposited with the United States Postal Service, utilizing the "Express Mail Post Office to Addressee" service addressed to **Box PATENT APPLICATION, Commissioner for Patents, Washington, DC 20231** and mailed on the above Date of Mailing with the above "Express Mail" mailing label number.

 (Signature)  
 D. Benjamin Borson, Ph.D., Reg No. 42,349  
 Signature Date: January 22, 2002

UTILITY PATENT APPLICATION TRANSMITTAL LETTER UNDER 37 C.F.R §1.53(b)

Box PATENT APPLICATION  
 Commissioner for Patents  
 Washington, DC 20231

Sir:

Transmitted herewith for filing is the patent application identified as follows:

Inventor(s): Leonid N. Grigorov, Ph.D., Sc.D., Andrey Krayev, and Raisa V. Talroze, Ph.D., Sc.D.

Title: QUANTUM DEVICES BASED ON CRYSTALLIZED ELECTRON PAIRS  
 AND METHODS FOR THEIR MANUFACTURE AND USE

No. of pages in Specification: 84; No. of Claims: 2

No. of Sheets of Drawings: 21; Formal:       , Informal: X

Also enclosed are:

- \_\_\_\_\_ A Declaration.
- \_\_\_\_\_ An Assignment and Recordation Form Cover Sheet.
- \_\_\_\_\_ A certified copy of a priority application.
- \_\_\_\_\_ A Power of Attorney.
- \_\_\_\_\_ A Statement Claiming Small Entity Status.
- \_\_\_\_\_ An Information Disclosure Statement under 37 C.F.R. §1.56.

The filing fee pursuant to 37 C.F.R. §1.16 is determined as follows:

No. Filed	No. Extra			Rate Small Entity/ Other Than Small Entity		
Basic Fee				\$370.00 \$740.00	=	\$370.00
Total Claims	<u>2</u> - 20	=	<u>0</u> *	X	\$ 9.00 \$ 18.00	= \$
Independent Claims	<u>2</u> - 3	=	<u>0</u> *	X	\$ 42.00 \$ 84.00	= \$
First Presentation of Multiple Dependent Claim(s)			<u>    </u>		\$140.00 \$280.00	= \$
				Total	=	\$ _____

\*If the difference is less than zero, enter "0".

  X   Please charge Deposit Account No. 06-1325 in the amount of \$   370  . A duplicate copy of this authorization is enclosed.

\_\_\_\_\_ A check in the amount of \$ \_\_\_\_\_ to cover the filing fee (\$ \_\_\_\_\_), and assignment recording fee (\$40.00), if applicable, is enclosed.

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The Commissioner is hereby authorized to charge underpayment of any additional fees (including those listed below) or credit any overpayment associated with this communication to Deposit Account No. 06-1325. A duplicate copy of this authorization is enclosed.

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Any additional filing fees under 37 C.F.R. §1.16.

✓

Any patent application processing fees under 37 C.F.R. §1.17.

This application is filed pursuant to 37 C.F.R. §1.53(b) in the name of the above-identified Inventor(s).

\_\_\_\_\_

This application claims priority to an earlier-filed Provisional patent application, as set forth more fully in this application.

Please direct all correspondence concerning the above-identified application to the following address:

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Respectfully submitted,

Date: January 22, 2002

By: \_\_\_\_\_

*D. Benjamin Borson*  
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PATENT APPLICATION SERIAL NO. \_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
FEE RECORD SHEET

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